Economical Primary Standard Gas Mass Flow Calibrator Industrial & Environmental

FEATURES

- Primary standard dry piston prover
- Accuracy: +/-1.0% of reading mass flow rate
- Flow ranges from 5 sccm up to 30,000 sccm (30 slpm)
- Portable mass flow calibrator for gases
- Quality: manufactured to ISO 17025 standard at NIST-accredited lab (NVLAP)
- Ideal for quality control in manufacturing of:
 Air Samplers, GC's, and Particle Counters
- Fast: 1 to 15 seconds per reading (approximate)
- Ease-of-Use: simple push-button navigation and intuitive user interface allows for quick set up and easy operation
- Unlike traditional bubble provers:
 - No preparation involved
 - No messy soap bubble solutions
- Flexible: user-selectable flow units and time intervals
- Leak test checks for internal leaks
- RoHS and CE compliant

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www.sierrainstruments.com







DESCRIPTION

ierra's CalTrak® 350 was developed specifically for calibrations and verification of critical industrial and environmental tools, including quality control for manufacturers of air samplers, gas chromatographs, and particle counters. It provides the accuracy, customization and durability needed in today's exacting, fast-paced workplace.

The 350 allows users to verify gas mass flow rates, in the field or in the lab, to an accuracy of +/- 1.0% of reading, including temperature and pressure compensation. CalTrak 350's positive displacement technology provides immediate indication of actual gas mass flow rate — accurately and independently of gas type. Integrated temperature and pressure sensors in the flow stream allow users to automatically standardize volumetric flow readings to standard conditions, for traceable verifications of mass flow devices.



WHY PRIMARY STANDARD?

CalTrak 350 is a true primary standard in every sense of the word, because its accuracy is based upon primary SI units: The interior diameter of the glass measuring cylinder; the length of piston travel within the cylinder; and the time it takes the piston to travel this distance, implying a known volume. Our patented technology, therefore, offers accuracies at the level of national laboratories in a very compact and portable device.

PERFORMANCE SPECIFICATIONS

Mass Flow Accuracy

+/- 1.0% of reading

Pressure Accuracy

+/- 3.5 mmHg (.07 psi) typical, 7.0 mm (.14 psi) maximum Pressure sensor in the flow stream

Temperature Accuracy

+/- 0.8° C (33.44°F) typical, 1.3° C (34.34°F) maximum

Time per Measurement

1 to 15 seconds per reading (approximate) Temperature sensor in the flow stream

Type

Single (manual), continuous or burst Averaging function user-selectable from 1 to 100 measurements

OPERATION SPECIFICATIONS

Flow Ranges*

350-L: 5 sccm to 50 sccm (0.5 slpm)* 350-M: 50 sccm to 5,000 sccm (5 slpm)* 350-H: 300 sccm to 30,000 sccm (30 slpm)*

*Note: At gas pressure of 760 mmHg, (1 atm) and a gas temperature of 25°C (77°F) with standardization temperature set to 0°C (32°F)

Operating Pressure

15 psia maximum (1.03 barA)

Operating Temperature

0°C to 50°C (32°F to 122°F)

Ambient Humidity

0-70%, non-condensing

Storage Temperature

0°C to 70°C (32°F to 158°F)

Flow Modes

Suction or pressure

Gas compatibility

Non-corrosive, humidity less than 70% non-condensing

Pressure & Suction Fittings

1/4-inch ID Swagelok® compression fittings for low and medium models, 3/8-inch ID for high model

Standardized Flow Units

scc/min, smL/min, sL/min, scf/min

Pressure Units

mmHg, psi, kPa

Temperature Units

°C, °F

Warranty

1 year; battery 6 months

Approvals

RoHS and CE Compliant

Digital Communication

RS-232 port, or if your PC does not have an RS-232 port you will need a USB to RS-232 adapter

PHYSICAL SPECIFICATIONS

Dimensions

Height: 5.5 inches (140 mm) Width: 6 inches (150 mm) Depth: 3 inches (75mm)

Weight

29 oz (820 g)

Configuration

Integrated flow measuring cell, valve and timing mechanism

POWER REQUIREMENTS

AC Power Adapter/Charger

12VDC, >250ma, 2.5 mm, center positive

Battery

6V rechargeable, sealed lead-acid, 6 to 8 hours typical operation

Battery Operational Time (5 cycles/min)

3 hours backlight on; 8 hours backlight off

USER INTERFACE & SOFTWARE

Local Interface

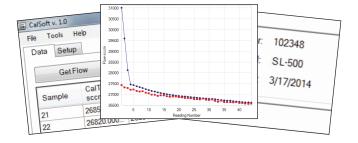
Backlit LCD graphical display; Four directional arrow buttons on the control panel allow you to navigate through the menu; user selectable flow units plus time intervals

CalSoft™ Software

Software System Requirements Windows® XP, Windows® 7 Microsoft Excel® 2003 and up

USER INTERFACE & SOFTWARE (CONTINUED)

- Captures flow data from your CalTrak instrument for easy export into common software packages, a PC, or Microsoft enviornment.
- Real-time data monitoring
- Upload the latest version of the firmware to your CalTrak
- Enter flow rates from pumps or other flow source or flow meters and calibrate the flow source.
- Compare the flow measurements from your CalTrak precision calibrator.



DIMENSIONS



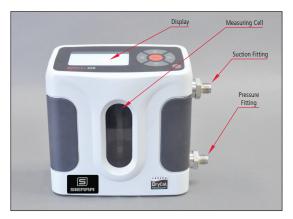
DISPLAY & INTERFACE

Close up of display



PRODUCT FEATURES

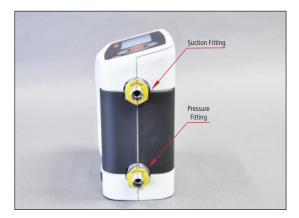
CalTrak 350 Front View



CalTrak 350 Back View



Side view





Instructions: To order a CalTrak 350, please fill in each feature number block by selecting the codes from the corresponding features below.

Primary Flow Meter; CalTrak® 350	
350-L	Low flow range, 5 sccm to 50 sccm (0.5 slpm), rated accuracy ± 1.0% of reading standardized*. Shipment includes a universal 100-240V AC power adapter/charger, plastic leak test cap (1), NIST-Traceable calibration certificate, mini-manual, ¼ inch Swagelok® fittings.
350-M	Medium flow range, 50 sccm to 5,000 sccm (5 slpm), rated accuracy ± 1.0% of reading standardized*. Shipment includes a universal 100-240V AC power adapter/charger, plastic leak test cap (1), NIST-Traceable calibration certificate, mini-manual, ¼ inch Swagelok® fittings
350-Н	High flow range, 300 sccm to 30,000 sccm (30 slpm), rated accuracy ± 1.0% of reading standardized*. Shipment includes a universal 100-240V AC power adapter/charger, plastic leak test cap (1), NIST-Traceable calibration certificate, mini-manual, 3/8 inch Swagelok® fittings

^{*}At gas pressure of 760 mmHg (1 atm), and a gas temperature of 25°C (77°F) with standardization temperature set to 0°C (32°F).

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